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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/596,416

06/13/2006

Akimitsu Tsuda

JP030023

6382

24737

7590

05/05/2009

PHILIPS INTELLECTUAL PROPERTY & STANDARDS

P.O. BOX 3001

BRIARCLIFF MANOR, NY 10510

EXAMINER

CHIEN, LUCY P

ART UNIT

PAPER NUMBER

2871

MAIL DATE

DELIVERY MODE

05/05/2009

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/596,416	<b>Applicant(s)</b> TSUDA, AKIMITSU	
	<b>Examiner</b> LUCY P. CHIEN	<b>Art Unit</b> 2871	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 6/13/2006.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 13 June 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)            | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____                                      |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>8/10/2007</u> .   | 6) <input type="checkbox"/> Other: _____                          |

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

**Claim 1-3,9** are rejected under 35 U.S.C. 102(b) as being anticipated by Hirayama Yuichi (JP 2002-372711).

*Regarding Claim 1,9.*

Hirayama Yuichi (Drawing 1, Drawing 3) discloses a backlight for a display including a light guide means (106), having a pair of main surfaces (where 112 is pointing to) faced each other and a pair of edge surfaces (the edges that are perpendicular to 112) faced each other, for guiding the light (106) from a light source (105) arranged on one edge surface to both of main surfaces; and control means (108) for controlling said light source for illuminating a main lighting region having relatively large size on a side of one main surface through said light guide means (106), and illuminating a sub-lighting region (109) having relatively small size on a side of another main surface through said light guide means (106).

*Regarding Claim 2.*

Hirayama Yuichi (Drawing 1) discloses wherein said controlling means comprises mode select means for selecting either a mode of illuminating the main lighting region or a mode of illuminating the sub-lighting region; and switch means for switching the power

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supply to said light source according to the mode selected by said mode select means [0005].

Regarding Claim 3,

Hirayama Yuichi (Drawing 1) discloses wherein said switch means supplies the whole light source with the electric power in the mode of illuminating the main lighting region, and supplies a part of the light source with the electric power in the mode of lighting to the sub-lighting region.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

**Claim 4** is rejected under 35 U.S.C. 103(a) as being unpatentable over Hirayama Yuichi (JP 2002-372711) in view of Im et al (US 20060274226).

Regarding Claim 4

Hirayama Yuichi (Drawing 1, Drawing 3) discloses everything as disclosed above and said switch means supplies LEDs having higher contribution to the illumination with the electric power in the mode of illuminating the sub-lighting region (that happens when when folding the cell phone, the main LCD 108 is closed, so therefore the sub LCD 109 is lit [0005]).

Hirayama Yuichi does not disclose said light source has a plurality of LEDs arranged in parallel.

Im et al discloses [0050] the plurality of LED lamps may be arranged parallel to each other in an edge of the light guide.

It would have been obvious to one of ordinary skill in the art to modify Hirayama Yuichi to include Im et al's plurality of LED lamps may be arranged parallel to each other in an edge of the light guide motivated by the desire to increase the light utilization efficiency [0050] and abstract.

**Claim 5** is rejected under 35 U.S.C. 103(a) as being unpatentable over Hirayama Yuichi (JP 2002-372711) and view of Im et al (US 20060274226) in view of West et al (US 20050001537).

Regarding Claim 5.

Hirayama Yuichi and Im et al disclose everything as disclosed above

Hirayama Yuichi and Im et al do not disclose wherein said LEDs having higher contribution to the illumination are center-located LEDs of the plurality of LEDs arranged in parallel.

West et al discloses (page 5, claim 13) wherein said LEDs having higher contribution to the illumination are center-located LEDs of the plurality of LEDs arranged in parallel to improve color uniformity, therefore to provide a uniform distribution of light.

It would have been obvious to one of ordinary skill in the art to modify Hirayama Yuichi and Im et al to include West et al's LEDs having higher contribution to the illumination are center-located LEDs of the plurality of LEDs arranged in parallel motivated by the desire to improve color uniformity, therefore to provide a uniform distribution of light (page 5, claim 13)

**Claim 6** is rejected under 35 U.S.C. 103(a) as being unpatentable over Hirayama Yuichi (JP 2002-372711) in view of Hosseini et al (US 20010001595).

Regarding Claim 6.

Hirayama Yuichi discloses everything as disclosed above.

Hirayama Yuichi does not disclose wherein said light guide means has diffusion means and an isotropic prism member on both of the main surfaces respectively.

Hosseini et al discloses light guide means has diffusion (32) means and an isotropic prism member BEF.TM.(35) on both of the main surfaces respectively to provide better illumination over the surface are of the display [0006] and [0043].

It would have been obvious to one of ordinary skill in the art to modify Hirayama Yuichi to include Hosseini et al's light guide means has diffusion means and an isotropic prism member on both of the main surfaces respectively motivated by the desire to provide better illumination over the surface are of the display [0006] and [0043].

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**Claim 7** is rejected under 35 U.S.C. 103(a) as being unpatentable over Hirayama Yuichi (JP 2002-372711) in view of Higashiyama (US 7156546)

Regarding Claim 7,

Hirayama Yuichi discloses everything as disclosed above.

Hirayama Yuichi does not disclose wherein said light guide means has a semitransparent reflective member on the main surface of the sub-lighting region side.

Higashiyama discloses wherein said light guide means has a semitransparent reflective member on the main surface of the sub-lighting region side, making the sub lighting region a semitransparent display (column 3, rows 44-53)

It would have been obvious to one of ordinary skill in the art to modify Hirayama Yuichi to include Higashiyama's light guide means has a semitransparent reflective member on the main surface of the sub-lighting region side, (column 3, rows 44-53) motivated by the desire to have a semitransparent reflective display element which can perform both transmission display realized by controlling transmission of light emerging from the surface light source device and reflection display realized by controlling the transmission of external light incident from an observation side (column 3, rows 44-53).

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LUCY P. CHIEN whose telephone number is (571)272-8579. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571)272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Lucy P Chien  
Examiner  
Art Unit 2871

/David Nelms/

Supervisory Patent Examiner, Art Unit 2871



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